## In the Claims:

- 1 1. (Currently amended) A method of processing a surface of a nitride semiconductor crystal, wherein comprising
- bringing a surface of a nitride semiconductor crystal

  is brought into contact with a liquid containing at least

  Na, Li or Ca as a processing solution consisting

  essentially of one or more members selected from the group

  consisting of Na, NaNH, NaI, NaBr, NaCl, Li, LiNH, LiI,

  LiBr, LiCl, LiF, Ca, CaI, CaBr, and CaCl.
- 2. (Currently amended) The method of processing a surface of
  a nitride semiconductor crystal according to claim 1,
  wherein said processing solution is a liquid containing
  contains at least Na and has an Na content of 5-95 mol%.
- (Currently amended) The method of processing a surface of a nitride semiconductor crystal according to claim 1, wherein said processing solution is a liquid containing contains at least Li and has an Li content of 5-100 mol%.
- 4. (Previously presented) The method of processing a surface of a nitride semiconductor crystal according to claim 1, wherein said nitride semiconductor crystal is an  $Al_xGa_yIn_{1-x-y}N$  semiconductor crystal ( $0 \le x \le 1$ ,  $0 \le y \le 1$ ,  $0 \le x + y \le 1$ ).

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- currently amended) A system comprising a liquid processing solution that consists essentially of one or more members selected from the group consisting of Na, NaNH<sub>2</sub>, NaI, NaBr, NaCl, Li, LiNH<sub>2</sub>, LiI, LiBr, LiCl, LiF, Ca, CaI<sub>2</sub>, CaBr<sub>2</sub>, and CaCl<sub>2</sub>, and a nitride semiconductor crystal having that has a maximum depth of a surface scratch of at most 0.01 μm on a surface thereof that and obtained with a method of processing a surface of a nitride semiconductor crystal wherein a surface of a nitride semiconductor crystal is brought into contact with [[a]] the liquid containing at least Na, Li or Ca as a processing solution.
- 1 6. (Currently amended) The nitride semiconductor crystal
  2 system according to claim 5, wherein said processing
  3 solution is a liquid containing contains at least Na and
  4 has an Na content of 5-95 mol%.
- 1 8. (Currently amended) The nitride semiconductor crystal system according to claim 5, wherein said nitride semiconductor crystal is an  $Al_xGa_yIn_{1-x-y}N$  semiconductor crystal (0  $\leq$  x  $\leq$  1, 0  $\leq$  y  $\leq$  1, 0  $\leq$  x + y  $\leq$  1).

- (Currently amended) A system comprising a liquid processing solution that consists essentially of one or more members selected from the group consisting of Na, NaNH2, NaI, NaBr, NaCl, Li, LiNH2, LiI, LiBr, LiCl, LiF, Ca, CaI2, CaBr2, and CaCl2, and a nitride semiconductor crystal having that has an average thickness of a damaged layer of at most 2 µm on a surface thereof that and obtained with a method of processing a surface of a nitride semiconductor crystal wherein a surface of a nitride semiconductor crystal is brought into contact with [[a]] the liquid containing at least Na, Li or Ca as a processing solution.
- 1 10. (Currently amended) The nitride semiconductor crystal
  2 system according to claim 9, wherein said processing
  3 solution is a liquid containing contains at least Na and
  4 has an Na content of 5-95 mol%.
- 1 12. (Currently amended) The nitride semiconductor crystal 2 system according to claim 9, wherein said nitride 3 semiconductor crystal is an  $Al_xGa_yIn_{1-x-y}N$  semiconductor crystal (0  $\le$  x  $\le$  1, 0  $\le$  y  $\le$  1, 0  $\le$  x + y  $\le$  1).